(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



I HERY BRADUR R BERKE HER BERKE BERK BERK BERK BERK HER BERKE BERK BERKE BARE BERK BERKE BERKE BERK BERK HER B

(43) International Publication Date 25 March 2004 (25.03.2004)

PCT

(10) International Publication Number WO 2004/024469 A1

(51) International Patent Classification⁷: 3/16, 3/10, 3/04, B21D 53/26

B60B 3/14,

(21) International Application Number:

PCT/BR2003/000127

(22) International Filing Date:

5 September 2003 (05.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PI0203723-8 12 September 2002 (12.09.2002) BR

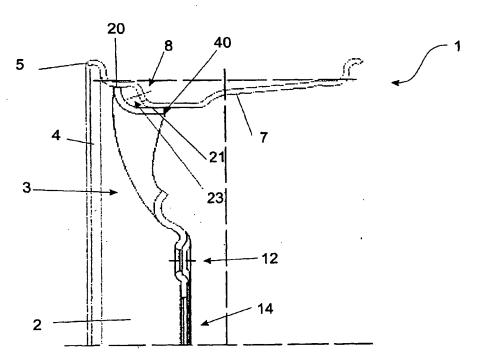
- (71) Applicant (for all designated States except US): MERITOR DO BRASIL LTDA. [BR/BR]; Av. Major José Levy Sobrinho, 2700, Limeira, CEP-13486-925 São Paulo, SP (BR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FRANCIS-CHETTI, Evandro, Luis [BR/BR]; Rua Agenor Ferreira de Camargo, 100, Jardim São Roque - Limeira,

CEP-13480-338 São Paulo, SP (BR). MARCÃO, Marcelino [BR/BR]; Rua Euclides Xavier de Lima, 350, Limeira, CEP-13484-317 São Paulo, SP (BR). RODRIGUES, Flávio [BR/BR]; Rua Brasil, 238, Limeira, CEP-13486-104 São Paulo, SP (BR).

- (74) Agent: DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA; Caixa Postal 2142, Rua Marquês de Olinda, 70, CEP-22251-040 Rio de Janeiro, RJ (BR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: A WHEEL AND A WHEEL DISC



(57) Abstract: It is described a wheel, particularly for use on automotive vehicles, formed by associating a substantially cylindrical wheel rim (2) and a substantially circular wheel disc (3) to each other, the wheel disc (3) comprising at least one through bore (16), the through bore (16) comprising at least one projection (37), the projection (37) cooperating with the wheel rim (2). It is also described a wheel disc (3) for use with the wheel (1) presented herein.

